

Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

| STATE | ADDRESS |
|--------------------------|---|
| Alaska | 201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687 |
| Arizona | 201 East Indianola, Suite 200, Phoenix, AZ 85012 |
| Colorado (New Mexico) | 2490 West 26th Ave., Denver, CO 80211 |
| Idaho | 304 North 8th Street, Room 345, Boise, ID 83702 |
| Montana | 10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715 |
| Nevada | 50 South Virginia Street, Third Floor, Reno, NV 89505 |
| Oregon | 1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204 |
| Utah | 4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147 |
| Washington | 360 U.S. Court House, Spokane, WA 99201 |
| Wyoming | Federal Building, 100 East "B" Street, Casper, WY 82602 |

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Montana Water Supply Outlook

and

Federal – State – Private Cooperative Snow Surveys

Issued by

Wilson Scaling
Chief
Soil Conservation Service
Washington, D.C.

Released by

Glen H. Loomis
State Conservationist
Soil Conservation Service
Bozeman, Montana

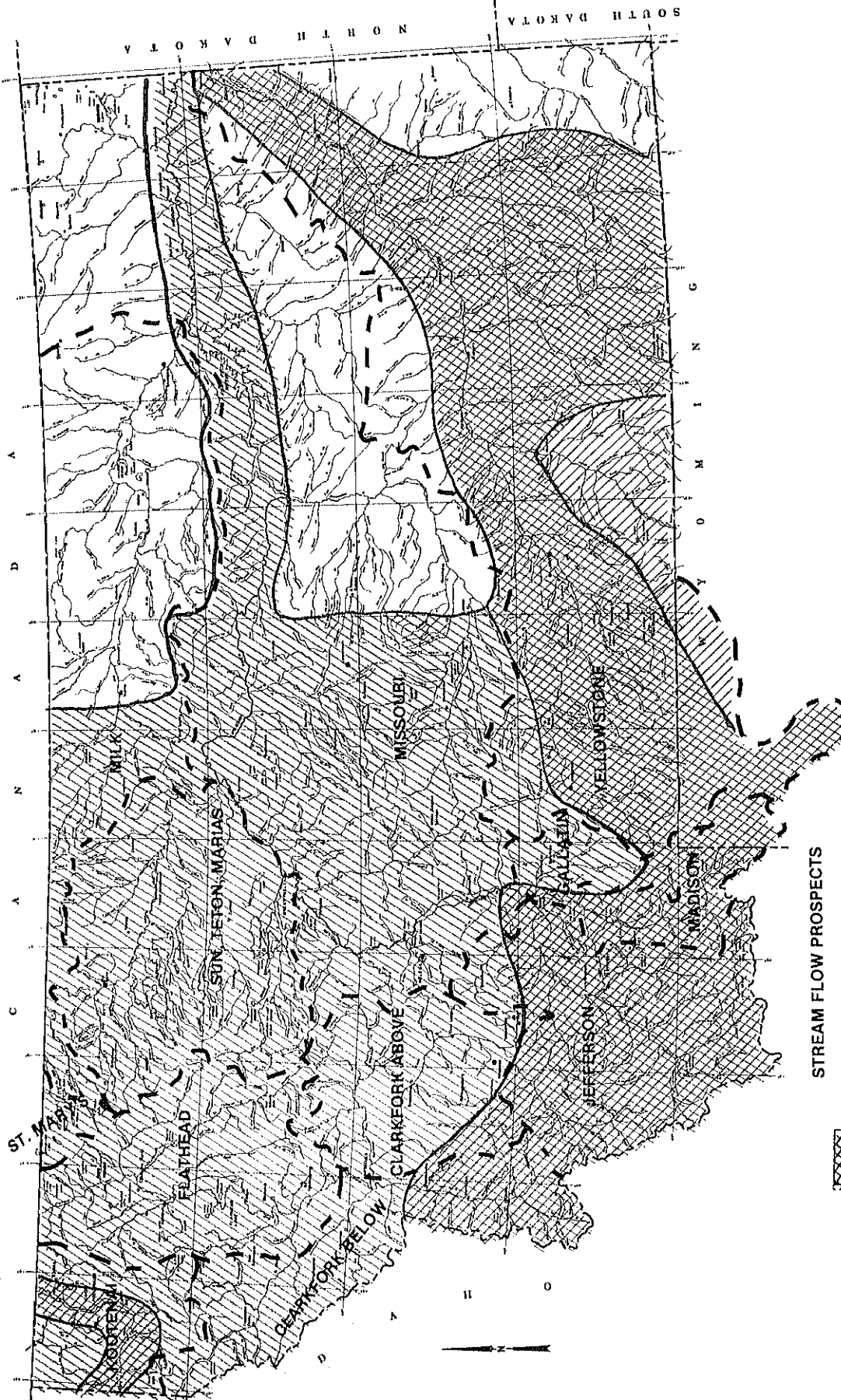
Prepared by

Phillip E. Farnes
Snow Survey Supervisor
Soil Conservation Service
10 E. Babcock
Bozeman, Montana 59715

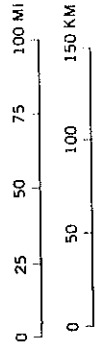
Programs and assistance of the United States Department of Agriculture are available without regard to race, creed, color, sex, age, or national origin.

STREAMFLOW PROSPECTS FOR MONTANA

Spring and Summer Period



March 1, 1986



SOURCE:
Information provided
by SCS Snow Survey
Personnel

GENERAL OUTLOOK

SUMMARY:

Snowpack conditions improved over most of the state during February. The southern half of Montana generally has average or a little above average snowpack. The northern half of the state generally has below average snowpack. Also, the Gallatin and parts of the Red Rock, Yellowstone and Musselshell drainages have below average snow cover. February precipitation was above average. Some rain that occurred in northwest Montana passed through the snowpack. Warm temperatures, rain and low elevation snowmelt combined to generate runoff in many areas. Most low elevation snowpack is now gone. Streamflows during the spring and summer months are forecast to be near to a little above average for southern drainages dropping to below average runoff over the remainder of the state.

SNOWPACK:

February was a good snowfall month. Most areas showed an increase of 10 to 20 percent in snowpack figures over those reported on February 1. The greatest increase was noted in the southern part of the state during the last 2 weeks of February. Most headwaters in southern Montana show near to above average snowpack. Exceptions are the Gallatin and parts of the Red Rock, Musselshell and Yellowstone drainages. Almost all areas in the northern half of the state have below average snowpack with many locations showing less snow than was reported last year at this time. Rain fell in the northern part of Montana near the end of February and passed through the snowpack. Warm temperatures during the last week of the month melted some low and mid-elevation snow and depleted snow from valley areas.

PRECIPITATION:

February precipitation was above average throughout all mountain ranges in Montana. Some locations recorded as much as two times their average February amounts. Usually precipitation at this time of year falls as snow even in the valley areas. This year, some of the precipitation occurred as rain even in the higher elevations of the northwestern part of the state. In many areas, the rain passed through the snowpack and generated early season runoff.

RESERVOIRS:

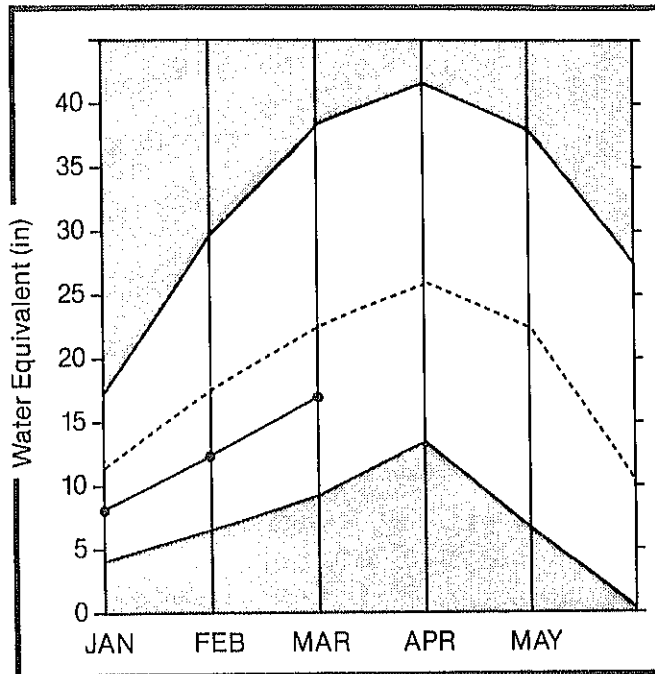
Nelson Reservoir in the Milk River drainage, most reservoirs in the Musselshell River drainage, Smith River Reservoir and Tongue River Reservoir had below average storage on the last day of February. All other irrigation reservoirs have storage levels near or above average. Most multipurpose or hydroelectric reservoirs have near average storage.

STREAMFLOW:

Streamflow forecasts are based on current snowpack and soil moisture conditions and near average precipitation for the remainder of the season. West of the Divide, most streams and rivers are forecast to have below average spring and summer runoff. The Bitterroot River drainage and adjacent Rock Creek are forecast to flow a little below average. Most streams in the Flathead and Clark Fork River drainages are expected to produce about 80 to 85 percent of average runoff. Smaller streams with lower elevation headwaters in the Kootenai and Clark Fork should have streamflows in the 70 to 80 percent of average range. East of the Divide, forecasts for the Missouri River headwaters vary from near average on the Jefferson, to above average on the Madison and below average on the Gallatin. Runoff from central Montana mountain ranges is expected to be near to a little below average. Streams flowing from the west into the Missouri River downstream from Canyon Ferry Reservoir and those in the St. Mary drainage are expected to produce only 75 to 85 percent of their average runoff. The Yellowstone, Boulder, Stillwater and Clarks Fork Rivers are forecast to be near average. Downstream, the Bighorn, Little Bighorn, Tongue and Powder Rivers are all forecast to have above average streamflows.

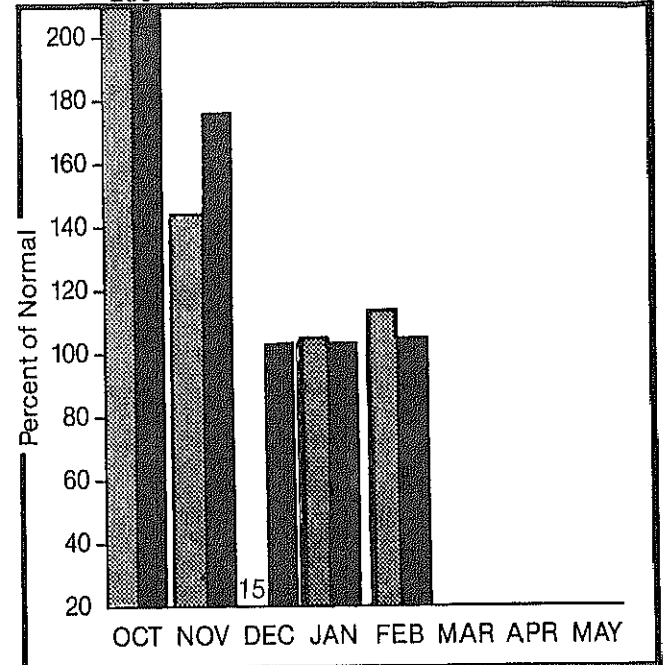
Kootenai Basin

Mountain snowpack* (inches)



* Kootenai in Montana

Precipitation* (percent of normal)



*Based on selected stations

Maximum



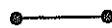
Average



Minimum



Current



Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

The mountain snowpack improved slightly during the past month. February precipitation was a little above average but much of it fell as rainfall and passed through the snowpack. Also some snowmelt was noted at lower elevations. Snow conditions are a little better in Canada. There is less snow than last year on the watersheds. Spring and summer streamflows on the Kootenai River are expected to be a little below average. Smaller tributary streams in Montana are expected to have below average runoff.

For more information contact your local Soil Conservation Service office.

KOOTENAI RIVER BASIN in Montana

STREAMFLOW FORECASTS

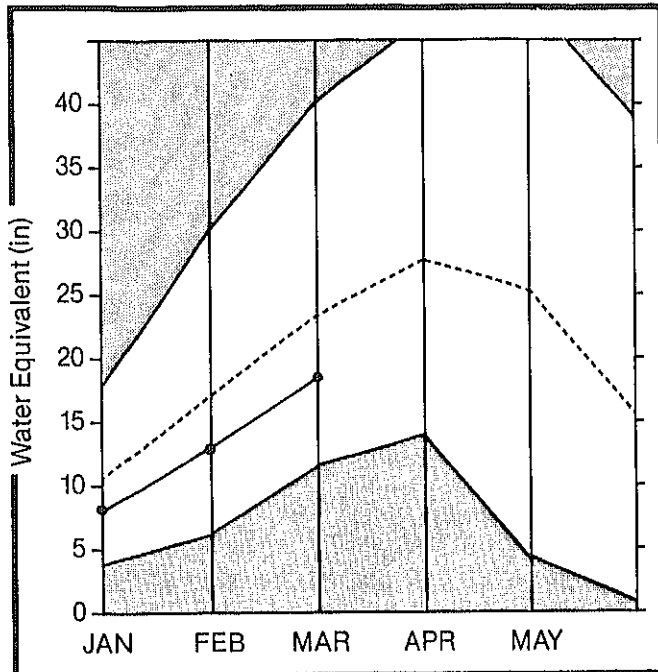
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|--------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| KOOTENAI RIVER blw Libby Dam * | APR-JUL | 6020.0 | 5570.0 | 92 | 115 | 71 | | | | |
| | APR-SEP | 7041.0 | 6520.0 | 92 | 115 | 71 | | | | |
| FISHER RIVER near Libby | APR-JUL | 248.0 | 177.0 | 71 | 97 | 46 | | | | |
| | APR-SEP | 264.0 | 189.0 | 71 | 98 | 45 | | | | |
| YAAK RIVER near Troy | APR-JUL | 500.0 | 400.0 | 80 | 106 | 54 | | | | |
| | APR-SEP | 523.0 | 425.0 | 81 | 107 | 55 | | | | |
| KOOTENAI RIVER at Leona * | APR-JUL | 7498.0 | 6810.0 | 90 | 112 | 70 | | | | |
| | APR-SEP | 8602.0 | 7810.0 | 90 | 112 | 70 | | | | |
| | APR-JUN | 6051.0 | 5423.0 | 89 | 111 | 69 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|---------------------------|---------------------------|----------------------|-----------------------------|-------------------|------------------------------------|----|
| RESERVOIR | USEABLE CAPACITY | USEABLE STORAGE THIS YEAR | USEABLE STORAGE LAST YEAR | USEABLE STORAGE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. AVERAGE | |
| LAKE KOOCANUSA | 5748.0 | 2108.0 | 1885.0 | 1948.0 | EAST KOOTENAI in B.C. | 25 | 99 | 90 |
| | | | | | KOOTENAI in MONTANA | 31 | 72 | 72 |
| | | | | | KOOTENAI ab BONNERS FERRY | 56 | 80 | 78 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Flathead Basin

Mountain snowpack* (inches)



* Flathead

Maximum



Average



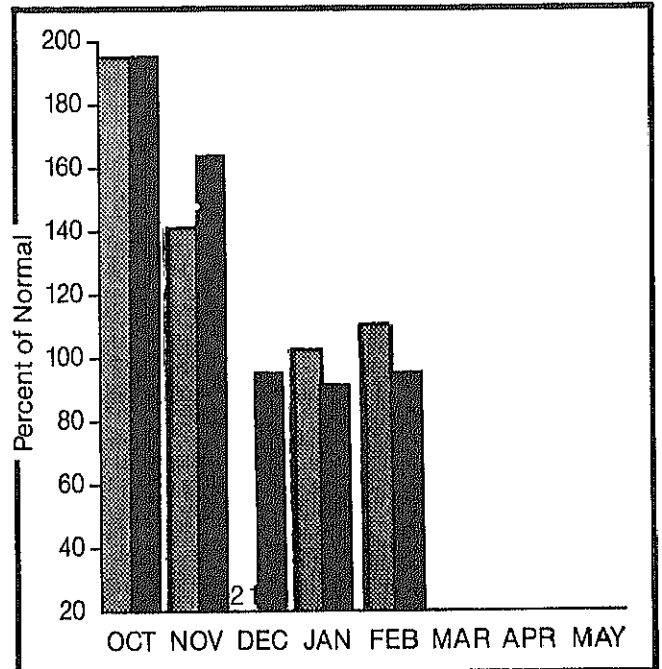
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Snowpack has improved slightly during February even though some of the moisture came as rain and passed through the snowpack. Presently, there is less snow than was measured last year on this date. Total precipitation for February was above average. Some runoff has occurred from snowmelt caused by recent warm temperatures and rain. Spring and summer streamflows are predicted to be below average on all drainages.

For more information contact your local Soil Conservation Service office.

FLATHEAD RIVER BASIN

STREAMFLOW FORECASTS

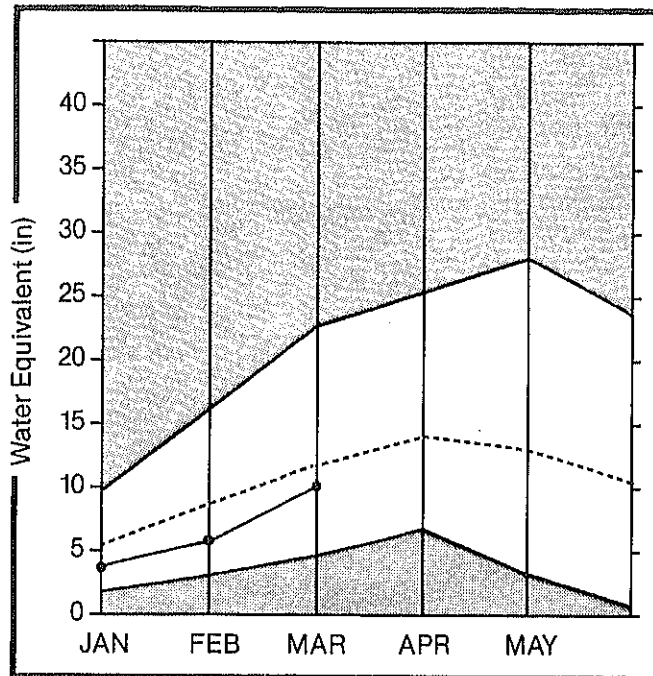
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|-----------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| NF FLATHEAD near Columbia Falls | APR-JUL | 1732.0 | 1380.0 | 79 | 96 | 64 | | | | |
| | APR-SEP | 1913.0 | 1530.0 | 79 | 96 | 64 | | | | |
| | APR-JUN | 1471.0 | 1175.0 | 79 | 96 | 64 | | | | |
| MF FLATHEAD near West Glacier | APR-JUL | 1713.0 | 1480.0 | 86 | 102 | 70 | | | | |
| | APR-SEP | 1869.0 | 1610.0 | 86 | 102 | 70 | | | | |
| | APR-JUN | 1453.0 | 1270.0 | 87 | 103 | 71 | | | | |
| SF FLATHEAD near Columbia Falls * | APR-JUL | 2142.0 | 1860.0 | 86 | 110 | 64 | | | | |
| | APR-SEP | 2278.0 | 1980.0 | 86 | 107 | 67 | | | | |
| | APR-JUN | 1886.0 | 1640.0 | 86 | 110 | 64 | | | | |
| FLATHEAD at Columbia Falls * | APR-JUL | 5721.0 | 4840.0 | 84 | 101 | 69 | | | | |
| | APR-SEP | 6208.0 | 5260.0 | 84 | 101 | 69 | | | | |
| | APR-JUN | 4921.0 | 4180.0 | 84 | 101 | 69 | | | | |
| SWAN RIVER near Big Fork | APR-JUL | 604.0 | 530.0 | 87 | 104 | 72 | | | | |
| | APR-SEP | 689.0 | 600.0 | 87 | 103 | 71 | | | | |
| FLATHEAD RIVER near Polson * | APR-JUL | 6712.0 | 5800.0 | 86 | 102 | 70 | | | | |
| | APR-SEP | 7278.0 | 6290.0 | 86 | 102 | 70 | | | | |
| | APR-JUN | 5759.0 | 4955.0 | 86 | 102 | 70 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|-----------|-----------|--------------|-----------------------------|-------------------|----------------------------|--------------|
| RESERVOIR | USEABLE CAPACITY | THIS YEAR | LAST YEAR | STORAGE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. | % OF AVERAGE |
| CANAS (4) | 45.2 | 20.5 | 17.0 | 21.0 | NORTH FORK FLATHEAD | 15 | 74 | 73 |
| MISSION VALLEY (8) | 100.0 | 44.3 | 36.4 | 38.1 | MIDDLE FORK FLATHEAD | 11 | 81 | 79 |
| HUNGRY HORSE | 3451.0 | 2281.0 | 2007.0 | 2213.0 | SOUTH FORK FLATHEAD | 13 | 81 | 82 |
| FLATHEAD LAKE | 1791.0 | 812.5 | 746.8 | 934.1 | STILLWATER-WHITEFISH | 9 | 79 | 74 |
| | | | | | SWAN | 11 | 85 | 85 |
| | | | | | LITTLE BITTERROOT | 9 | 74 | 79 |
| | | | | | FLATHEAD | 48 | 79 | 79 |

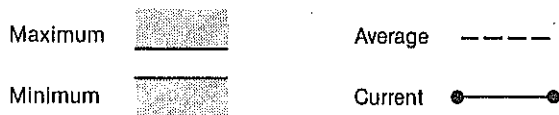
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Clark Fork Basin above Missoula

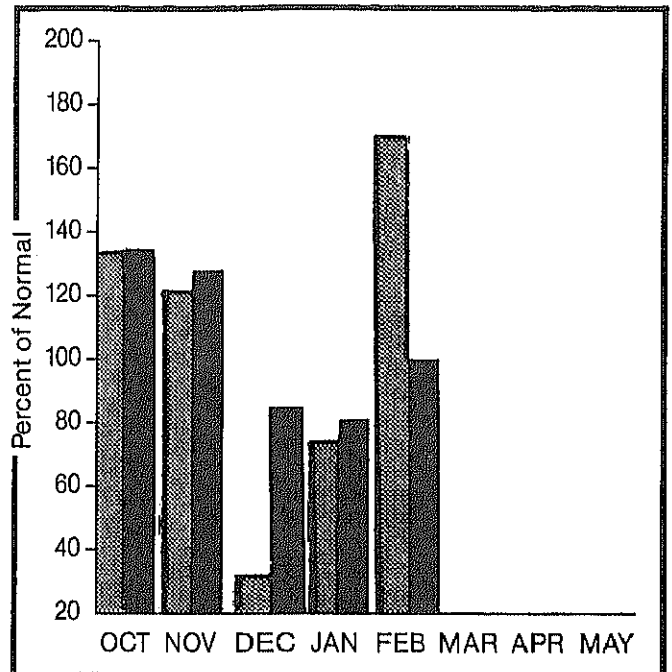
Mountain snowpack* (inches)



* Clark Fork above Missoula



Precipitation* (percent of normal)



*Based on selected stations



WATER SUPPLY OUTLOOK:

Snowpack conditions improved somewhat during February but they are still below average over most of the drainage. February precipitation was well above average. Some runoff was generated from low elevation snowmelt and rainfall during the last week in February. Runoff during spring and summer is forecast to be below average.

For more information contact your local Soil Conservation Service office.

CLARK FORK RIVER BASIN above Missoula

STREAMFLOW FORECASTS

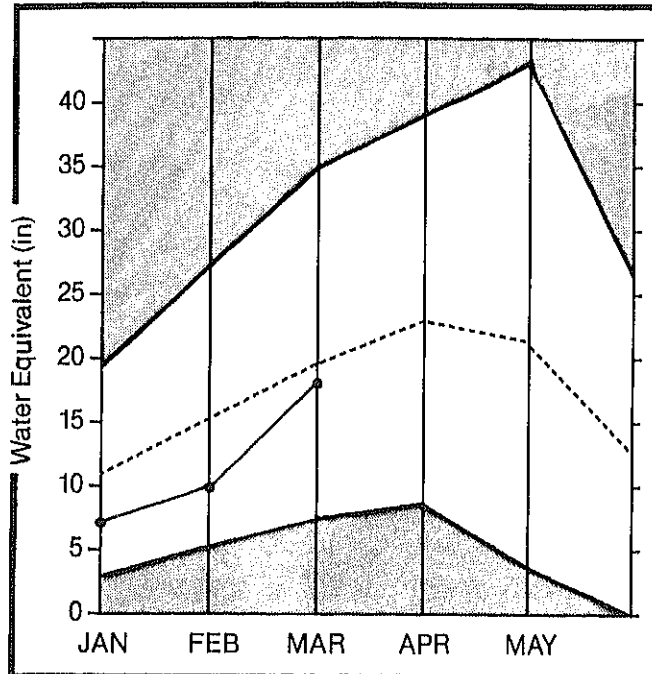
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|-----------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| MOULTON RESERVOIR Inflow (MG)* | APR-JUL | 263.0 | 210.0 | 79 | 106 | 54 | | | | |
| | APR-JUN | 237.0 | 190.0 | 80 | 105 | 55 | | | | |
| WARM SPRINGS CR at Meyers Dam * | APR-JUL | 37.8 | 33.3 | 88 | 114 | 61 | | | | |
| | APR-SEP | 46.8 | 41.2 | 88 | 113 | 62 | | | | |
| FLINT CREEK near Southern Cross * | APR-JUL | 15.4 | 12.3 | 79 | 117 | 45 | | | | |
| | APR-SEP | 18.3 | 14.5 | 79 | 115 | 44 | | | | |
| FLINT CREEK below Boulder Creek * | APR-JUL | 59.9 | 50.0 | 83 | 120 | 47 | | | | |
| | APR-SEP | 75.8 | 63.4 | 83 | 120 | 47 | | | | |
| LOWER WILLOW CR RES Inflow * | APR-JUL | 14.9 | 10.5 | 70 | 107 | 34 | | | | |
| | APR-SEP | 15.7 | 11.0 | 70 | 108 | 35 | | | | |
| M. FK. ROCK CRK near Philipsburg | APR-JUL | 70.5 | 62.5 | 88 | 115 | 62 | | | | |
| | APR-SEP | 78.2 | 69.2 | 88 | 115 | 63 | | | | |
| NEVADA CREEK near Finn | APR-JUL | 21.3 | 16.2 | 76 | 113 | 42 | | | | |
| | APR-SEP | 23.0 | 17.5 | 76 | 113 | 39 | | | | |
| BLACKFOOT RIVER near Bonner | APR-JUL | 904.0 | 725.0 | 80 | 96 | 64 | | | | |
| | APR-SEP | 999.0 | 820.0 | 82 | 98 | 66 | | | | |
| | APR-JUN | 782.0 | 637.0 | 81 | 97 | 65 | | | | |
| CLARK FORK RIVER above Milltown * | APR-JUL | 708.0 | 600.0 | 84 | 117 | 53 | | | | |
| | APR-SEP | 816.0 | 695.0 | 85 | 117 | 53 | | | | |
| | APR-JUN | 597.0 | 510.0 | 85 | 117 | 53 | | | | |
| CLARK FORK RIVER above Missoula | APR-JUL | 1612.0 | 1340.0 | 83 | 109 | 57 | | | | |
| | APR-SEP | 1815.0 | 1520.0 | 83 | 110 | 58 | | | | |
| | APR-JUN | 1379.0 | 1150.0 | 83 | 109 | 57 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|---------------------------|---------------------------|----------------------|-----------------------------|-------------------|----------------------------|--------------|
| RESERVOIR | USEABLE CAPACITY | USEABLE STORAGE THIS YEAR | USEABLE STORAGE LAST YEAR | USEABLE STORAGE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. | % OF AVERAGE |
| GEORGETOWN LAKE | 31.0 | 24.9 | 26.2 | 25.2 | CLARK FORK ab BLACKFOOT | 43 | 111 | 91 |
| LOWER WILLOW CREEK | 4.9 | 2.8 | 0.3 | 1.6 | BLACKFOOT | 22 | 90 | 83 |
| NEVADA CREEK | 12.6 | 9.6 | --- | 4.8 | CLARK FORK above MISSOULA | 59 | 103 | 86 |



*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Clark Fork Basin below Missoula

Mountain snowpack* (inches)



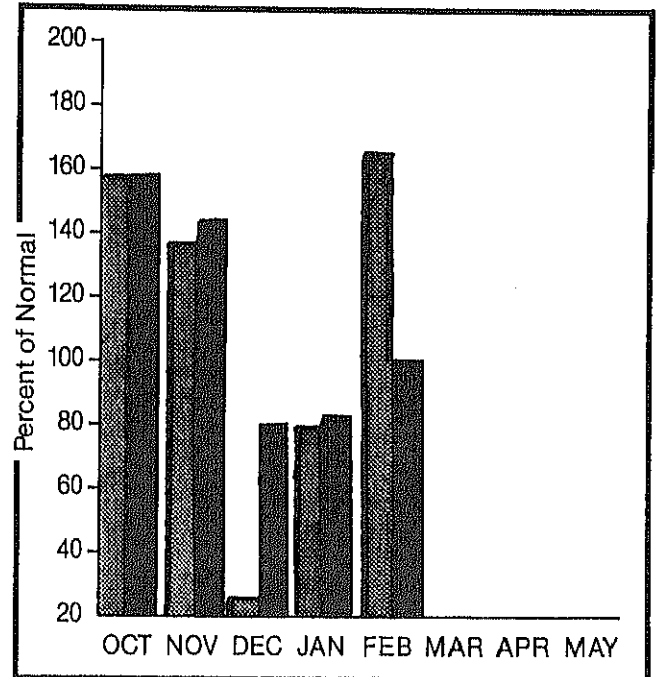
* Bitterroot

Maximum 
Minimum 


Average 


Current 

Precipitation* (percent of normal)



* Based on selected stations

Monthly precipitation 

Year to date precipitation 

WATER SUPPLY OUTLOOK:

The Bitterroot snowpack improved significantly during February and is now a little below average. The lower Clark Fork also improved but still has below average snow cover. Precipitation during February was well above average. There has been some runoff from lower elevations because of snowmelt and rain. April through September runoff is forecast at near to a little below average on the Bitterroot streams. Streams flowing into the lower Clark Fork are expected to have below average runoff.

For more information contact your local Soil Conservation Service office.

CLARK FORK RIVER BASIN below Missoula

STREAMFLOW FORECASTS

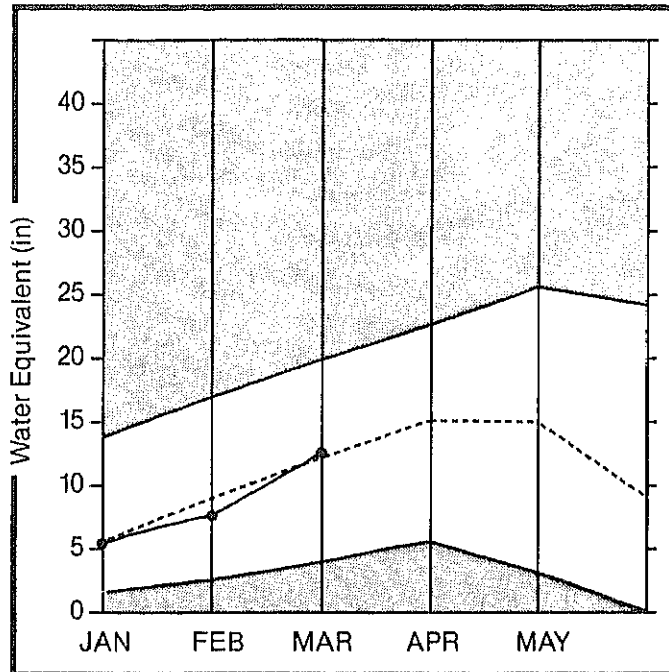
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|------------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| CLARK FORK RIVER above Missoula | APR-JUL | 1612.0 | 1340.0 | 83 | 109 | 57 | | | | |
| | APR-SEP | 1815.0 | 1520.0 | 83 | 110 | 58 | | | | |
| | APR-JUN | 1379.0 | 1150.0 | 83 | 109 | 57 | | | | |
| N.F. BITTERROOT RIVER nr Conner * | APR-JUL | 164.0 | 150.0 | 91 | 118 | 65 | | | | |
| | APR-SEP | 178.0 | 165.0 | 92 | 119 | 67 | | | | |
| BITTERROOT RIVER near Darby | APR-JUL | 532.0 | 500.0 | 93 | 120 | 68 | | | | |
| | APR-SEP | 580.0 | 540.0 | 93 | 119 | 67 | | | | |
| | APR-JUN | 464.0 | 445.0 | 95 | 122 | 70 | | | | |
| SKALKAH CREEK near Hamilton | APR-JUL | 48.7 | 46.3 | 95 | 111 | 80 | | | | |
| | APR-SEP | 56.0 | 52.8 | 94 | 111 | 79 | | | | |
| BURNT FORK CR nr Stevensville * | APR-JUL | 32.2 | 30.2 | 93 | 121 | 68 | | | | |
| | APR-SEP | 37.4 | 34.5 | 92 | 118 | 67 | | | | |
| BITTERROOT RIVER at Missoula * | APR-JUL | 1384.0 | 1240.0 | 89 | 116 | 64 | | | | |
| | APR-SEP | 1504.0 | 1350.0 | 89 | 116 | 64 | | | | |
| | APR-JUN | 1191.0 | 1100.0 | 92 | 118 | 66 | | | | |
| CLARK FORK RIVER below Missoula | APR-JUL | 2996.0 | 2580.0 | 86 | 104 | 68 | | | | |
| | APR-SEP | 3319.0 | 2870.0 | 86 | 104 | 68 | | | | |
| | APR-JUN | 2570.0 | 2225.0 | 86 | 105 | 69 | | | | |
| CLARK FORK RIVER at St. Regis | APR-JUL | 3928.0 | 3420.0 | 87 | 112 | 62 | | | | |
| | APR-SEP | 4411.0 | 3800.0 | 86 | 111 | 61 | | | | |
| | APR-JUN | 3428.0 | 2945.0 | 86 | 111 | 61 | | | | |
| CLARK FORK RIVER near Plains * | APR-JUL | 11071.0 | 9830.0 | 88 | 108 | 70 | | | | |
| | APR-SEP | 12153.0 | 10300.0 | 84 | 104 | 66 | | | | |
| | APR-JUN | 9459.0 | 8120.0 | 85 | 105 | 67 | | | | |
| THOMPSON RIVER near Thompson Falls | APR-JUL | 233.0 | 185.0 | 79 | 103 | 55 | | | | |
| | APR-SEP | 261.0 | 210.0 | 80 | 105 | 56 | | | | |
| PROSPECT CREEK at Thompson Falls | APR-JUL | 132.0 | 110.0 | 83 | 109 | 58 | | | | |
| | APR-SEP | 142.0 | 120.0 | 84 | 111 | 58 | | | | |
| CLARK FORK at Whitehorse Rapids * | APR-JUL | 12351.0 | 10400.0 | 84 | 103 | 65 | | | | |
| | APR-SEP | 13575.0 | 11400.0 | 83 | 103 | 65 | | | | |
| | APR-JUN | 10570.0 | 8915.0 | 84 | 103 | 65 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | |
|----------------------------|------------------|---------------------------------|-----------|-------|-----------------------------|-------------------|------------------------------------|
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** THIS YEAR | LAST YEAR | AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. AVERAGE |
| PAINTED ROCKS LAKE | | NO REPORT | | | CLARK FORK above MISSOULA | 59 | 103 88 |
| HOXON RAPIDS | 335.0 | 162.8 | 316.5 | 295.1 | BITTERROOT | 19 | 104 91 |
| CONO | 34.9 | 16.1 | 8.8 | 12.6 | LWR CLARK FK b/w MISSOULA | 19 | 76 80 |
| | | | | | BITTERROOT & LWR C.F. | 37 | 86 85 |
| | | | | | CLARK FORK TOTAL | 91 | 92 86 |
| | | | | | FLATHEAD | 48 | 79 79 |
| | | | | | PEND O'REILLE | 134 | 87 83 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Jefferson Basin

Mountain snowpack* (inches)



* Jefferson

Maximum



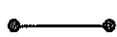
Average



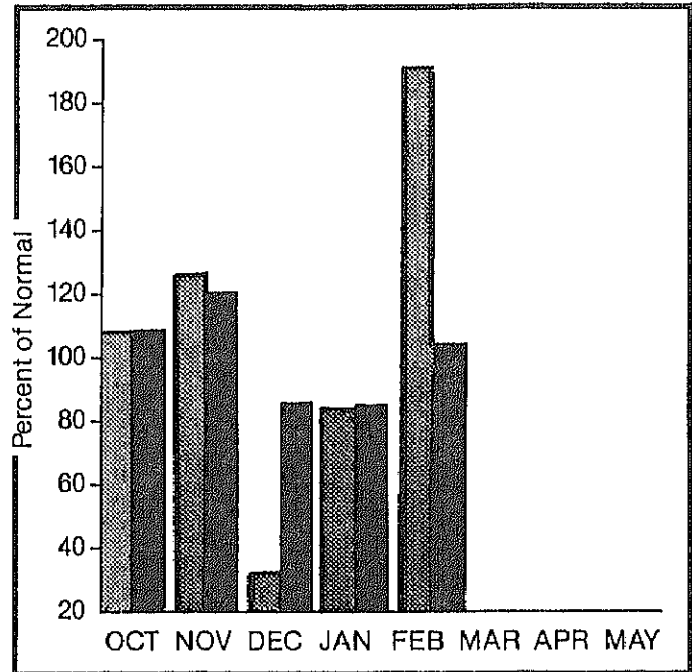
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Most drainages have average or above average snowpack. One exception is part of the Red Rock where snow cover is still below average. February precipitation was nearly twice as much as average at most locations. Spring and summer streamflows are forecast to be near to a little below average for the upper Red Rock River and average to a little above average on other drainages.

For more information contact your local Soil Conservation Service office.

JEFFERSON RIVER BASIN

STREAMFLOW FORECASTS

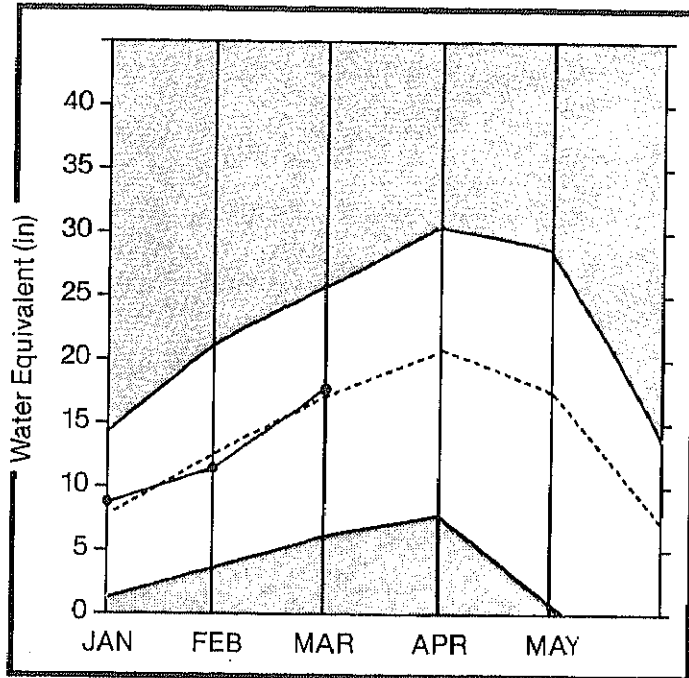
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | HIST PROBABLE (1000AF) | HIST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|--------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| RED ROCK RIVER near Honida * | APR-JUL | 96.0 | 90.0 | 93 | 128 | 59 | | | | |
| | APR-SEP | 103.0 | 96.4 | 93 | 127 | 59 | | | | |
| BEAVERHEAD RIVER near Grant * | APR-JUL | 137.0 | 134.0 | 97 | 132 | 64 | | | | |
| | APR-SEP | 158.0 | 149.0 | 94 | 128 | 60 | | | | |
| BEAVERHEAD RIVER at Barratts * | APR-JUL | 180.0 | 175.0 | 97 | 131 | 63 | | | | |
| | APR-SEP | 209.0 | 196.0 | 93 | 128 | 60 | | | | |
| RUBY RIVER near Alder | APR-JUL | 85.0 | 81.5 | 95 | 128 | 64 | | | | |
| | APR-SEP | 101.0 | 96.2 | 95 | 128 | 63 | | | | |
| BIG HOLE RIVER near Melrose | APR-JUL | 698.0 | 685.0 | 98 | 128 | 68 | | | | |
| | APR-SEP | 760.0 | 739.0 | 97 | 127 | 67 | | | | |
| WILLOW CREEK near Harrison | APR-JUL | 17.9 | 18.3 | 102 | 140 | 67 | | | | |
| | APR-SEP | 20.0 | 20.2 | 100 | 135 | 65 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|-----------|-----------|-------|-----------------------------|-------------------|----------------------------|--------------|
| RESERVOIR | USEABLE CAPACITY | THIS YEAR | LAST YEAR | AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. | % OF AVERAGE |
| LINA | 84.0 | 25.6 | 28.7 | 36.2 | BEAVERHEAD | 32 | 128 | 107 |
| CLARK CANYON | 257.0 | 145.3 | 147.9 | 141.2 | RUBY | 14 | 118 | 96 |
| RUBY RIVER | 38.8 | 29.7 | 27.8 | 26.7 | BIGHOLE | 27 | 116 | 101 |
| | | | | | BOULDER | 15 | 109 | 95 |
| | | | | | JEFFERSON | 69 | 119 | 102 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Madison Basin

Mountain snowpack* (inches)



* Madison

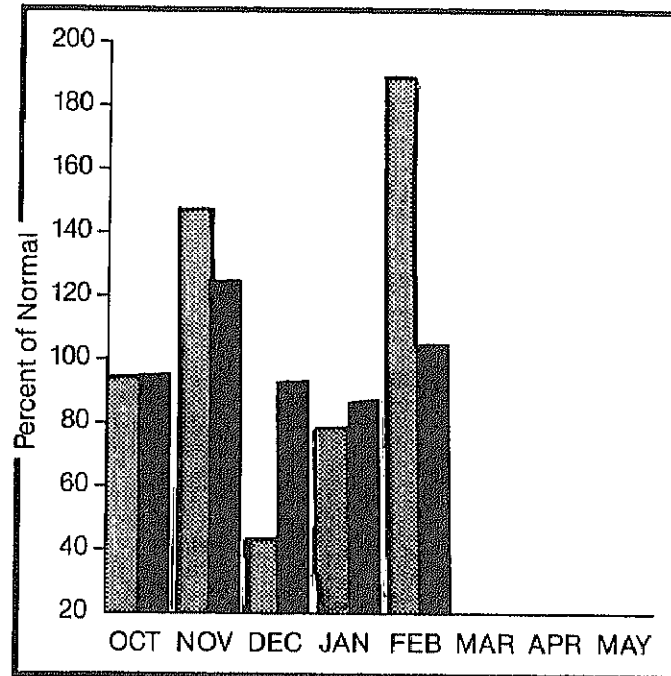
Maximum

Minimum

Average

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack in the headwaters near Yellowstone National Park is above average. Downstream the snow cover is about average in the Gravelly Range and below average in the Madison Range. Precipitation during February, was almost twice as much as average. Streamflows on the upper Madison are forecast to be above average and decreasing to near average in the lower drainage.

For more information contact your local Soil Conservation Service office.

MADISON RIVER BASIN

STREAMFLOW FORECASTS

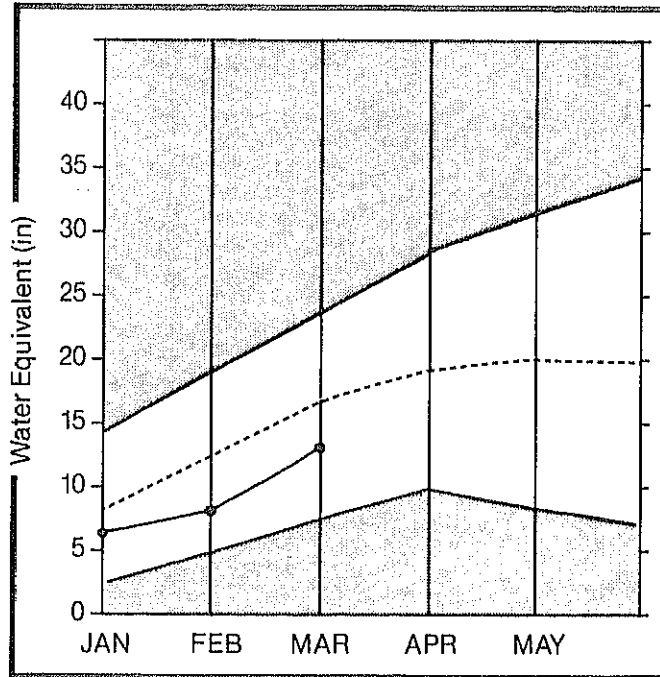
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | HIST. PROBABLE (1000AF) | HIST. PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|---------------------------------|-----------------|----------------------|-------------------------|-------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| MADISON RIVER near Grayling * | APR-JUL | 388.0 | 432.0 | 111 | 129 | 93 | | | | |
| | APR-SEP | 496.0 | 545.0 | 109 | 128 | 92 | | | | |
| MADISON RIVER near McAllister * | APR-JUL | 672.0 | 670.0 | 99 | 118 | 82 | | | | |
| | APR-SEP | 848.0 | 832.0 | 98 | 116 | 80 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|---------------------------------|-----------|-------|-----------------------------|-------------------|----------------------------|--------------|
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** THIS YEAR | LAST YEAR | AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. | % OF AVERAGE |
| ENNIS LAKE | 41.0 | 30.1 | 32.5 | 35.7 | MADISON above HEBGEN | 17 | 128 | 115 |
| HEBGEN LAKE | 378.0 | 277.1 | 305.2 | 224.6 | LOWER MADISON | 20 | 117 | 94 |
| | | | | | MADISON | 37 | 123 | 105 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period

Gallatin Basin

Mountain snowpack* (inches)



* Gallatin

Maximum



Average



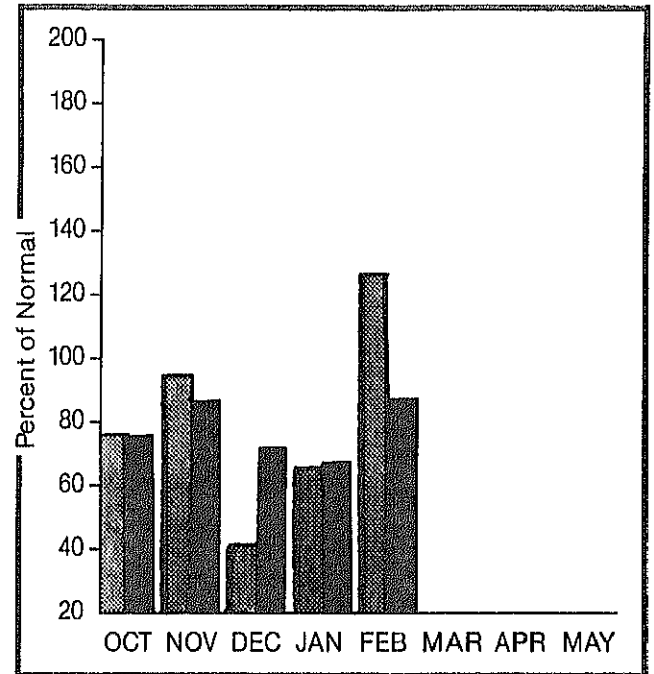
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Snowpacks have improved a little during February but remain well below average in the Bridger Range and on the north end of the Gallatin Range. This area also has less snow than was measured a year ago. Snowpacks are a little better in the southern part of the headwaters but are still below average. February precipitation was a little above average. Spring and summer streamflows are forecast to be below average from all drainages.

For more information contact your local Soil Conservation Service office.

GALLATIN RIVER BASIN

STREAMFLOW FORECASTS

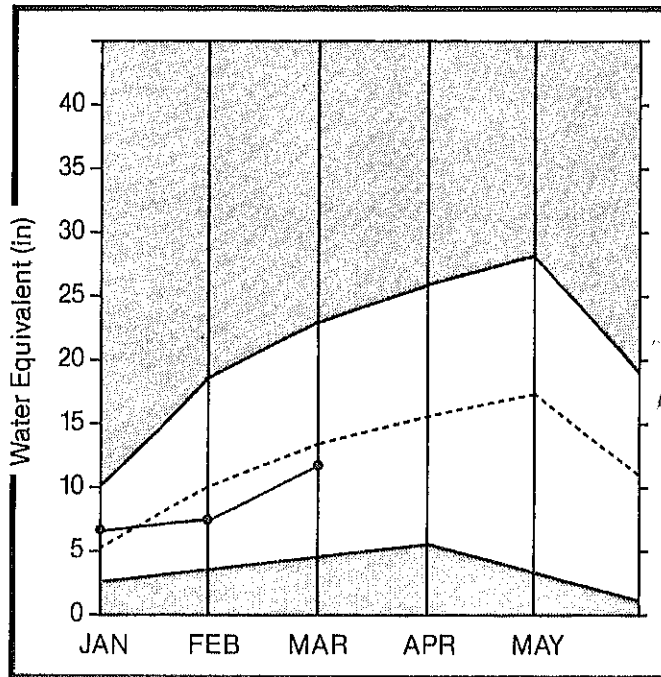
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|------------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| GALLATIN RIVER near Gateway | APR-JUL | 464.0 | 385.0 | 82 | 101 | 65 | | | | |
| | APR-SEP | 545.0 | 445.0 | 81 | 100 | 64 | | | | |
| E & W FK. HYALITE CR. nr Bozeman * | APR-JUL | 25.0 | 20.4 | 81 | 96 | 64 | | | | |
| | APR-SEP | 29.0 | 23.5 | 81 | 97 | 66 | | | | |
| HYALITE CREEK near Bozeman * | APR-JUL | 39.0 | 31.6 | 81 | 100 | 62 | | | | |
| | APR-SEP | 45.0 | 36.3 | 80 | 100 | 60 | | | | |
| GALLATIN RIVER at Logan | APR-JUL | 523.0 | 400.0 | 76 | 102 | 50 | | | | |
| | APR-SEP | 611.0 | 470.0 | 76 | 103 | 51 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|-----------|-----------|------|-----------------------------|-------------------|------------------------------------|----|
| RESERVOIR | USEABLE CAPACITY | THIS YEAR | LAST YEAR | AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. AVERAGE | |
| MIDDLE CREEK | 8.0 | 6.3 | 3.8 | 3.6 | UPPER GALLATIN | 14 | 111 | 87 |
| | | | | | EAST GALLATIN | 13 | 92 | 69 |
| | | | | | GALLATIN | 24 | 104 | 80 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

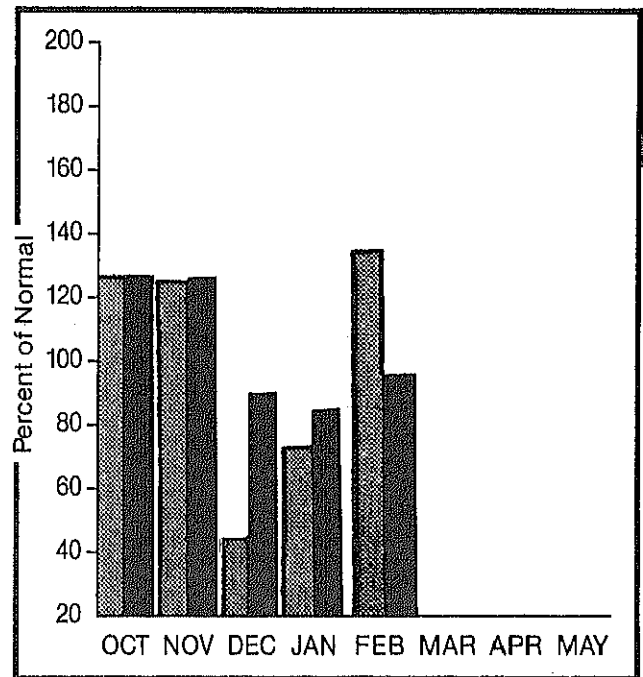
Missouri Basin

Mountain snowpack* (inches)



* Missouri Toston to Fort Peck

Precipitation* (percent of normal)



*Based on selected stations

Maximum



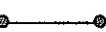
Average



Minimum



Current



Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Snowpack conditions improved during February. Mountain snowpacks are generally near average in the southern part of the drainage but decrease on downstream tributaries. Precipitation during February was above average. Some runoff occurred in late February from low elevation snowmelt and rainfall. Streamflows during the spring and summer period are forecast to vary from near average in the headwaters and tributaries in the southern areas to below average from downstream tributaries.

For more information contact your local Soil Conservation Service office.

MISSOURI RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|------------------------------------|--------------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| MISSOURI RIVER at Toston * | APR-JUL APR-SEP | 2196.0 2545.0 | 1990.0 2335.0 | 90 91 | 135 136 | 61 62 | | | | |
| SHEEP CREEK nr White Sulphur Spgs. | APR-JUL APR-SEP | 19.0 22.0 | 19.0 21.9 | 100 99 | 142 141 | 58 59 | | | | |
| BELT CREEK near Monarch | APR-JUL APR-SEP | 123.0 134.0 | 118.0 128.0 | 95 95 | 132 131 | 60 60 | | | | |
| MISSOURI RIVER at Fort Benton * | APR-JUL APR-SEP | 3468.0 3980.0 | 2995.0 3535.0 | 86 88 | 140 140 | 56 56 | | | | |
| MISSOURI RIVER at Virgelle * | APR-JUL APR-SEP | 4030.0 4570.0 | 3432.0 4015.0 | 85 87 | 142 142 | 54 54 | | | | |
| MISSOURI RIVER near Landusky * | APR-JUL APR-SEP | 4383.0 4980.0 | 3805.0 4455.0 | 86 89 | 146 146 | 54 54 | | | | |
| N.F. MUSSELSHELL near Delpine | APR-JUL APR-SEP | 5.4 6.4 | 5.0 5.9 | 92 92 | 130 125 | 56 47 | | | | |
| S.F. MUSSELSHELL above Martinsdale | APR-JUL APR-SEP | 59.0 63.0 | 52.0 54.2 | 88 86 | 129 125 | 47 46 | | | | |
| MISSOURI RIVER below Fort Peck * | APR-JUL APR-SEP | 4428.0 4961.0 | 3900.0 4365.0 | 88 87 | 147 147 | 51 51 | | | | |
| LAKE SAKAKAWEA Inflow * | APR-JUL APR-SEP | 12239.0 12775.0 | 12000.0 12500.0 | 98 97 | 145 145 | 61 61 | | | | |

RESERVOIR STORAGE

(1000AF)

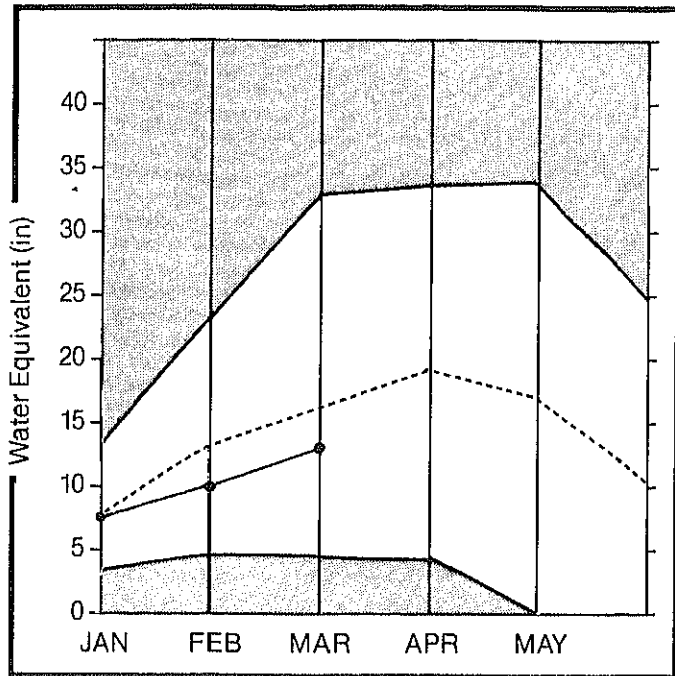
WATERSHED SNOWPACK ANALYSIS

| RESERVOIR | USEABLE CAPACITY | USEABLE STORAGE THIS YEAR | USEABLE STORAGE LAST YEAR | USEABLE STORAGE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. | % OF AVERAGE |
|-------------------|------------------|---------------------------|---------------------------|----------------------|--------------------------|-------------------|----------------------------|--------------|
| CANYON FERRY LAKE | 2043.0 | 1482.0 | 1379.0 | 1561.0 | MISSOURI HEADWATERS | 114 | 117 | 99 |
| HELENA VALLEY | 10.4 | 3.3 | 3.6 | 5.1 | WEST SIDE MISSOURI | 11 | 101 | 95 |
| LAKE HELENA | 10.4 | 10.9 | 10.9 | 9.9 | SMITH-BELT | 11 | 105 | 97 |
| HAUSER & HELENA | 61.9 | 63.0 | 63.0 | 60.1 | MISSOURI MAINSTEM | 22 | 103 | 96 |
| HOLTER LAKE | 81.9 | 78.1 | 75.4 | 63.6 | SUN-TETON-MARIAS | 17 | 84 | 82 |
| SMITH RIVER | 10.6 | 5.5 | 8.4 | 7.0 | JUDITH-MUSSELSHELL | 17 | 97 | 92 |
| NEHLAN CREEK | 12.4 | 9.7 | 9.7 | 9.2 | MISSOURI above FORT PECK | 155 | 109 | 96 |
| BAIR | 7.0 | 2.0 | 0.5 | 4.7 | MILK HEADWATERS | 4 | 60 | 63 |
| MARTINSDALE | 23.1 | 5.1 | 5.7 | 9.5 | BEAR PAW | 6 | 26 | 37 |
| DEADMAN'S BASIN | 72.2 | 34.8 | --- | 46.3 | MILK RIVER | 10 | 50 | 58 |
| FORT PECK LAKE | 18.9 | 13.8 | 15.6 | 14.8 | MISSOURI in MONTANA | 163 | 107 | 95 |
| | | | | | MISSOURI b/w YELLOWSTONE | 264 | 124 | 105 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Sun,Teton and Marias Basins

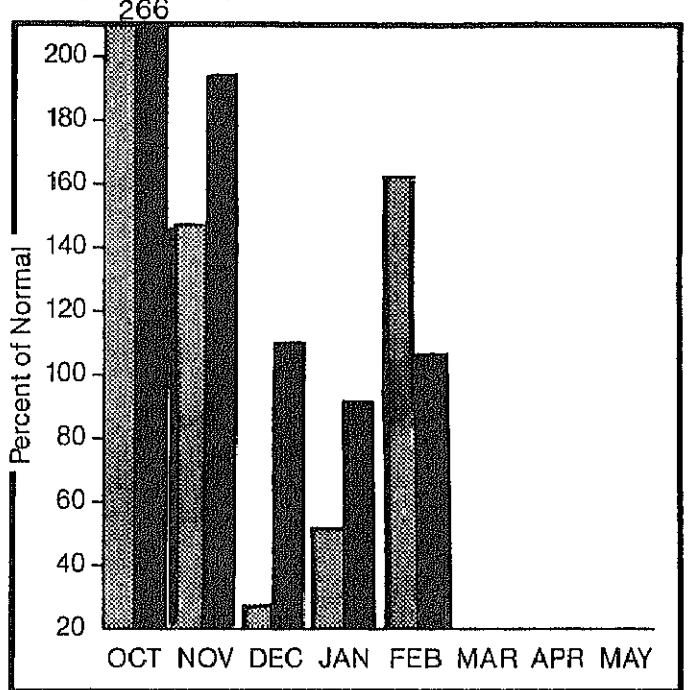
Mountain snowpack* (inches)





* Sun-Teton-Marias

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpack improved during February but is still below average in most areas. Also, there is less snow now than was measured a year ago. High elevation snowpacks are a little better than lower and mid-elevation snowpacks. Precipitation during February was well above average. Runoff increased near the end of February from low elevation snowmelt and rainfall. Spring and summer streamflows are forecast to be below average from all drainages.

For more information contact your local Soil Conservation Service office.

SUN-TETON-MARIAS RIVER BASINS

DREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|------------------------------------|--------------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| SUN RIVER at Gibson Dam * | APR-JUL APR-SEP | 522.0 570.0 | 438.0 479.0 | 83 84 | 108 108 | 60 60 | | | | |
| TWO MEDICINE CREEK near Browning * | APR-JUL APR-SEP | 235.0 248.0 | 188.0 198.0 | 80 79 | 116 114 | 44 46 | | | | |
| BADGER CREEK near Browning | APR-JUL APR-SEP | 113.0 130.0 | 96.0 112.0 | 84 86 | 121 120 | 49 52 | | | | |
| SHIFT RESERVOIR Inflow nr Dupuyer | APR-JUL APR-SEP | 74.7 86.7 | 64.5 74.5 | 86 85 | 122 120 | 51 52 | | | | |
| CUT BANK CREEK at Cut Bank | APR-JUL APR-SEP | 108.0 114.0 | 82.0 86.5 | 75 75 | 112 110 | 40 42 | | | | |
| MARIAS RIVER near Shelby | APR-JUL APR-SEP | 518.0 542.0 | 414.0 433.0 | 79 79 | 117 115 | 43 44 | | | | |

RESERVOIR STORAGE

(1000AF)

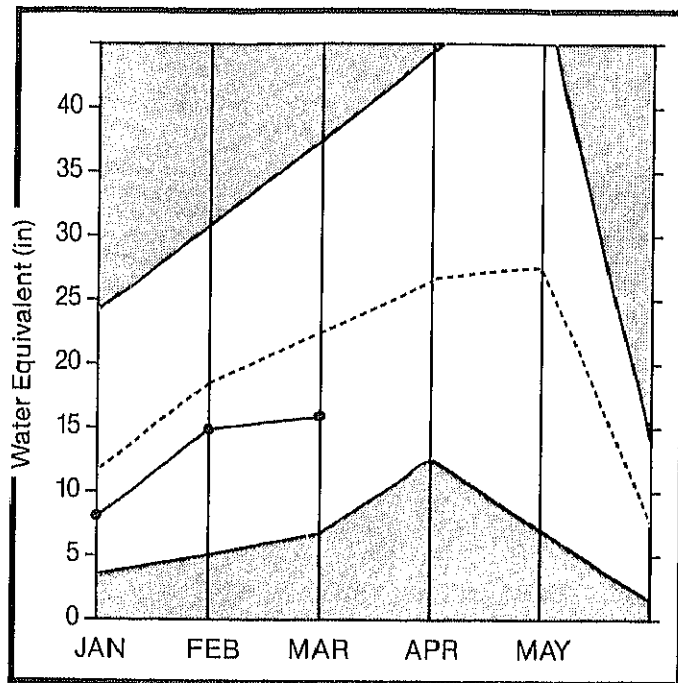
WATERSHED SNOWPACK ANALYSIS

| RESERVOIR | USEABLE CAPACITY | USEABLE STORAGE THIS YEAR | USEABLE STORAGE LAST YEAR | USEABLE STORAGE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. | AVERAGE |
|-------------------------|------------------|---------------------------|---------------------------|----------------------|------------------|-------------------|----------------------------|---------|
| GIBSON | 99.1 | 68.1 | 50.9 | 43.9 | SUN-TETON | 12 | 83 | 83 |
| PISHKUN | 32.0 | 18.1 | 18.5 | 17.8 | MARIAS | 6 | 84 | 82 |
| WILLOW CREEK | 32.2 | 22.5 | 12.6 | 20.1 | SUN-TETON-MARIAS | 17 | 84 | 82 |
| LOWER TWO MEDICINE LAKE | | NO REPORT | | | | | | |
| FOUR HORNS LAKE | | NO REPORT | | | | | | |
| SHIFT | 30.0 | 25.0 | 9.2 | 15.2 | | | | |
| LAKE FRANCES | 112.0 | 66.9 | 23.2 | 70.1 | | | | |
| LAKE ELWELL (TIBER) | 1347.0 | 774.2 | 668.2 | 542.1 | | | | |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

St. Mary and Milk Basins

Mountain snowpack* (inches)



* St. Mary

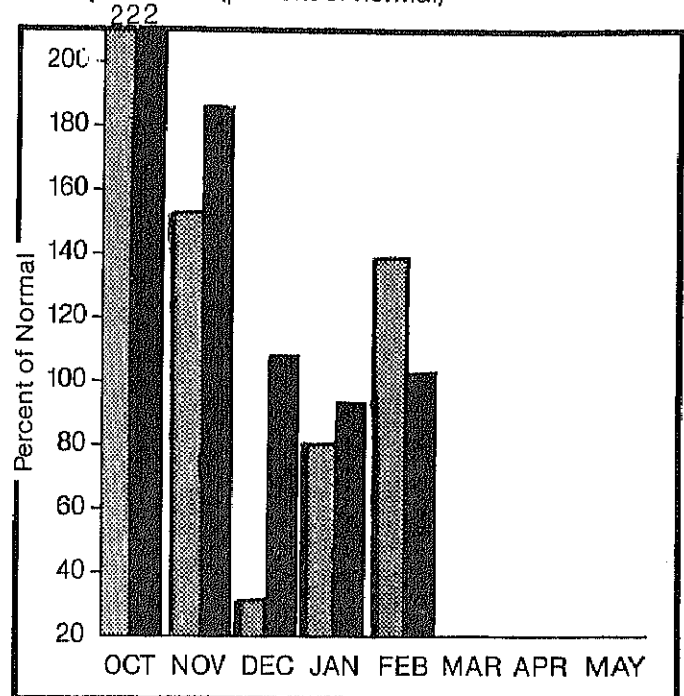
Maximum

Average

Minimum

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Warm temperatures near the end of February have depleted snowpacks in the Milk River drainage. Snow in the headwaters of the Milk and St. Mary Rivers is well below average even though February precipitation was well above average. Some of the February moisture fell as rain and passed through the snowpack and some melt was noted in lower elevation snowpacks. Streamflows are forecast to be well below average during the spring and summer months.

For more information contact your local Soil Conservation Service office.

ST. MARY and MILK RIVER BASINS

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|-----------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| SWIFTCURRENT CREEK at Sherburne * | APR-JUL | 112.0 | 86.6 | 77 | 99 | 55 | | | | |
| | APR-SEP | 128.0 | 98.4 | 76 | 99 | 55 | | | | |
| ST. MARY RIVER near Babb * | APR-JUL | 416.0 | 308.0 | 74 | 90 | 58 | | | | |
| | APR-SEP | 487.0 | 366.0 | 75 | 91 | 59 | | | | |
| MILK RIVER at Eastern Crossing * | MAR-SEP | 279.0 | 260.0 | 93 | 129 | 81 | | | | |
| MILK RIVER at Eastern Crossing | MAR-SEP | 109.0 | 81.7 | 74 | 111 | 64 | | | | |

RESERVOIR STORAGE

(1000AF)

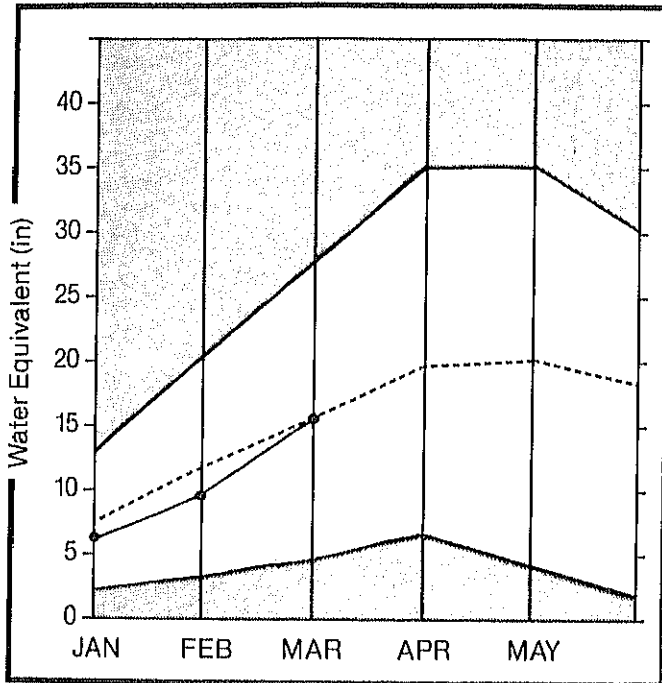
WATERSHED SNOWPACK ANALYSIS

| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** | | | WATERSHED | NO. COURSES AVE. D | THIS YEAR AS % OF | |
|----------------|------------------|-----------------------|-----------|------|-------------------------|--------------------|-------------------|---------|
| | | THIS YEAR | LAST YEAR | AVE. | | | LAST YR. | AVERAGE |
| LAKE SHERBURNE | 64.3 | 40.9 | 33.3 | 21.9 | MILK HEADWATERS | 4 | 60 | 63 |
| FRESNO | 127.0 | 59.4 | 7.6 | 58.5 | BEAR PAW | 6 | 26 | 37 |
| BEAVER CREEK | 3.5 | 3.3 | 0.9 | 1.7 | MILK RIVER | 10 | 50 | 58 |
| NELSON | 66.8 | 33.2 | 12.3 | 38.7 | ST. MARY | 11 | 69 | 71 |
| | | | | | ST. MARY and MILK | 17 | 62 | 67 |
| | | | | | BOW RIVER in ALBERTA | 10 | 141 | 122 |
| | | | | | OLDMAN RIVER in ALBERTA | 8 | 80 | 91 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Yellowstone Basin

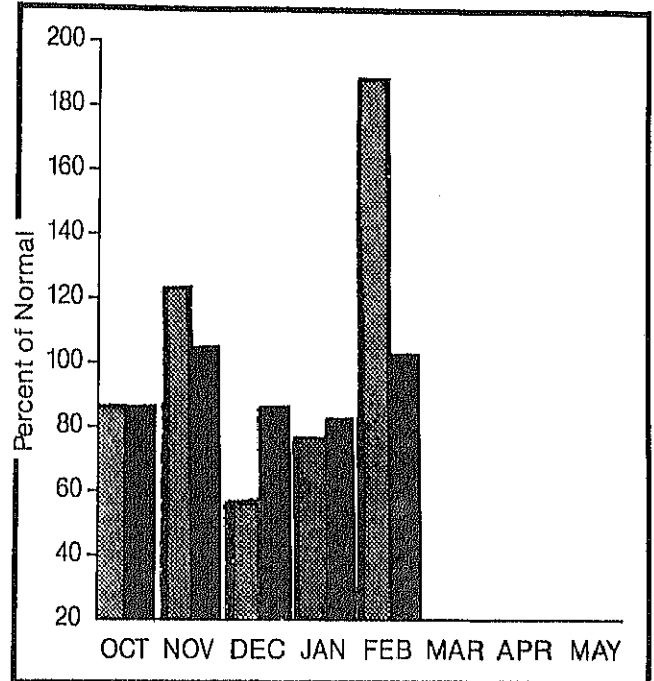
Mountain snowpack* (inches)



* Yellowstone above Big Horn

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpacks vary from above average in the Yellowstone headwaters to below average in the Bridger and Crazy Mountains. The Tongue, Powder and Bighorn drainages in Wyoming have above to well above average snow. February precipitation was nearly double the average. Spring and summer runoff is forecast above average for tributaries starting in or near Wyoming. Tributaries originating in the Crazy and Bridger Mountains are forecast to have below average streamflows.

For more information contact your local Soil Conservation Service office.

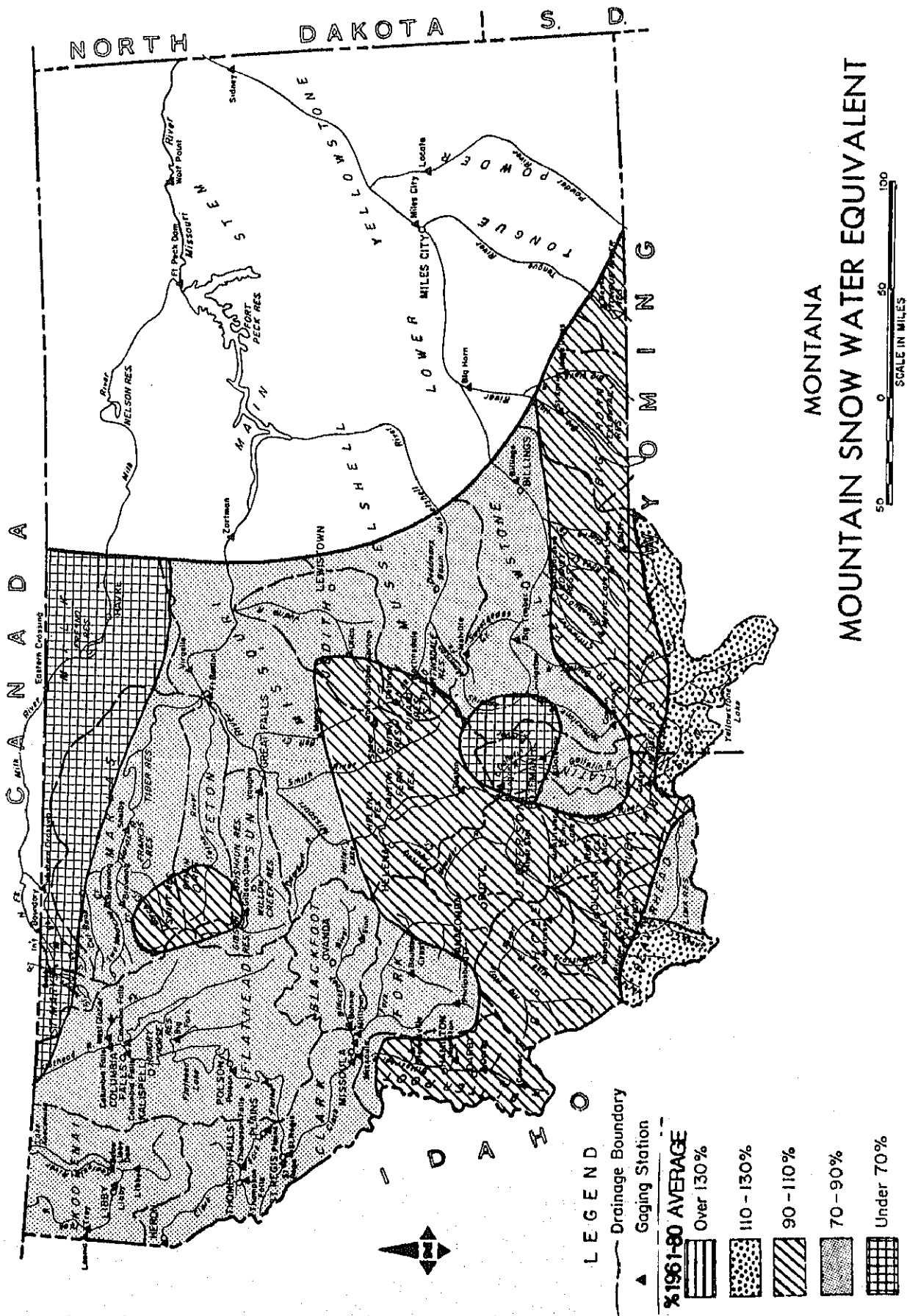
YELLOWSTONE RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | 26 YR. AVE. (1000AF) | HIST. PROBABLE (1000AF) | HIST. PROBABLE (2 AVE.) | REAS. MAY. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|-----------------------------------|-----------------|----------------------|-------------------------|-------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| YELLOWSTONE at Lake Outlet | APR-SEP | 826.0 | 900.0 | 108 | 125 | 93 | | | | |
| YELLOWSTONE at Corwin Springs | APR-JUL | 1686.0 | 1643.0 | 97 | 113 | 81 | | | | |
| | APR-SEP | 2027.0 | 1960.0 | 96 | 113 | 81 | | | | |
| YELLOWSTONE near Livingston | APR-JUL | 1949.0 | 1870.0 | 94 | 111 | 79 | | | | |
| | APR-SEP | 2379.0 | 2250.0 | 94 | 111 | 79 | | | | |
| BOULDER RIVER at Big Timber | APR-JUL | 366.0 | 370.0 | 101 | 125 | 77 | | | | |
| | APR-SEP | 398.0 | 393.0 | 98 | 123 | 75 | | | | |
| STILLWATER RIVER nr Absarokee * | APR-JUL | 528.0 | 530.0 | 100 | 132 | 68 | | | | |
| | APR-SEP | 632.0 | 632.0 | 100 | 132 | 68 | | | | |
| CLARK'S FORK RIVER near Belfry | APR-JUL | 563.0 | 620.0 | 110 | 140 | 80 | | | | |
| | APR-SEP | 628.0 | 705.0 | 112 | 142 | 82 | | | | |
| COONEY RESERVOIR Inflow | APR-JUL | 49.5 | 48.0 | 96 | 129 | 65 | | | | |
| | APR-SEP | 60.5 | 58.4 | 96 | 129 | 64 | | | | |
| YELLOWSTONE RIVER at Billings | APR-JUL | 3833.0 | 3910.0 | 102 | 129 | 84 | | | | |
| | APR-SEP | 4516.0 | 4460.0 | 98 | 126 | 81 | | | | |
| BIGHORN RIVER near St. Xavier * | APR-JUL | 1794.0 | 2315.0 | 129 | 168 | 102 | | | | |
| | APR-SEP | 1976.0 | 2555.0 | 129 | 168 | 102 | | | | |
| LITTLE BIGHORN RIVER near Hardin | APR-JUL | 162.0 | 195.0 | 120 | 167 | 65 | | | | |
| | APR-SEP | 182.0 | 218.0 | 119 | 167 | 64 | | | | |
| TONGUE RIVER near Decker | APR-JUL | 244.0 | 250.0 | 102 | 136 | 68 | | | | |
| | APR-SEP | 269.0 | 265.0 | 98 | 132 | 65 | | | | |
| YELLOWSTONE RIVER at Miles City * | APR-JUL | 5906.0 | 6500.0 | 110 | 144 | 86 | | | | |
| | APR-SEP | 6787.0 | 7355.0 | 108 | 142 | 84 | | | | |
| POWDER RIVER at Moorehead | APR-JUL | 243.0 | 267.0 | 109 | 161 | 44 | | | | |
| | APR-SEP | 263.0 | 283.0 | 107 | 159 | 42 | | | | |
| YELLOWSTONE RIVER near Sidney * | APR-JUL | 6544.0 | 7200.0 | 110 | 146 | 83 | | | | |
| | APR-SEP | 7518.0 | 8130.0 | 108 | 144 | 81 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|-----------------------|-----------|-----------|-----------------------------|-------------------|----------------------------|---------|
| RESERVOIR | USEABLE CAPACITY | ** USEABLE STORAGE ** | THIS YEAR | LAST YEAR | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % OF LAST YR. | AVERAGE |
| MYSTIC LAKE | 21.0 | 2.2 | 1.4 | 7.3 | YELLOWSTONE ab LIVINGSTON | 25 | 140 | 110 |
| COONEY | 27.4 | 18.4 | 19.2 | 14.6 | SHIELDS | 10 | 101 | 72 |
| BIGHORN LAKE | 1356.0 | 733.5 | 854.9 | 590.4 | BOULDER-STILLWATER | 7 | 122 | 96 |
| TONGUE RIVER | 68.0 | 24.6 | 10.2 | 34.4 | CLARK'S FORK-ROCK CREEK | 21 | 145 | 111 |
| | | | | | YELLOWSTONE above BIGHORN | 49 | 128 | 100 |
| | | | | | LITTLE BIGHORN | 5 | 138 | 109 |
| | | | | | HIND RIVER (Wyoming) | 27 | 231 | 171 |
| | | | | | BIGHORN RIVER (Wyoming) | 34 | 171 | 131 |
| | | | | | BIGHORN BASIN (Total) | 57 | 184 | 140 |
| | | | | | TONGUE RIVER (Wyoming) | 15 | 139 | 117 |
| | | | | | POWDER RIVER (Wyoming) | 15 | 171 | 117 |
| | | | | | YELLOWSTONE RIVER | 117 | 153 | 117 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.



March 1, 1986

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

Canadian

Department of the Environment
Atmospheric Environment Service
Water Management Service
British Columbia Ministry of Environment
Inventory and Engineering Branch, Hydrology Section
Alberta Environment
Technical Services Division

Federal

U.S. Department of Agriculture
Forest Service
U.S. Department of the Army
Corps of Engineers
U.S. Department of Commerce
NOAA, National Weather Service
National Environmental Satellite Service
U.S. Department of the Interior
Bureau of Indian Affairs
Fish and Wildlife Service
Geological Survey
National Park Service
Bureau of Reclamation
U.S. Department of Energy
Bonneville Power Administration

State

Montana Conservation Districts
Montana Department of Fish, Wildlife, and Parks
Montana Department of Natural Resources and Conservation
Montana Department of State Lands
Montana State University - Agricultural Experiment Station
University of Montana - School of Forestry

Private

Big Sky of Montana
Butte Water Company
Flathead Valley Community College
Montana Power Company
Pondera County Canal & Reservoir Company

Other organizations and individuals furnish information for the snow survey reports.
Their cooperation is gratefully acknowledged.